

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Patentee:** Dennis Joseph Denen, et al.      **Docket No.:** 4747-124C1N1/10401349

**Patent No.:** 7,102,366

**Issue Date:** September 5, 2006

**Title:** Proximity Detection Circuit and  
Method of Detecting Capacitance Changes

Commissioner for Patents  
Post Office Box 1450  
Alexandria, VA 22313-1450

Attention: Certificate of Correction Certificate

**REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 C.F.R. 1.323**

Dear Sir:

Attached is Form PTO/SB/44, which lists errors in the Patent due to Applicants' mistakes (37 C.F.R. § 1.323).

Pursuant to 37 C.F.R. § 1.323, Patentee hereby requests that the errors listed below be corrected. The exact page/column and line reference in the patent where the corrections should be made are as follows:

**"IN THE DRAWINGS:"**

Sheet 15 (Fig 10A)

Times should be in micro seconds ( $\mu$  not u)

Capacitor 208 should be 100 pico Farad (pF not pK)

Sheet 16 (Fig 10B)

Capacitor 260 should be 0.1 micro Farad ( $\mu$  not u)

Reference 254 should be deleted from op amp 242

Sheet 17 (Fig 10C)

The text above resistor 270 should read -- R1 AND C1 HAVE A CORNER  
FREQUENCY OF 20Hz -- (20Hz not 200Hz)

Unconnected terminals X, 4 and 8 of XU1B should be deleted

Capacitor 272 should be 0.1 micro Farad ( $\mu$  not u)

Sheet 18 (Fig 10D)

Unconnected terminals X, 4 and 8 of XU2B should be deleted

Capacitor 284 should be 1.0 micro Farad ( $\mu$  not u)

Capacitor 286 should be 0.01 micro Farad ( $\mu$  not u)

Under the heading **"DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS"**:

In Column 14, line 5, after the word "exponential", add the word --waveform --.

In Column 14, line 10, add a parenthesis after the words "32  $\mu$ s" to read as follows :

-- 32  $\mu$ s), --

In Column 16, line 43, after the number "[499+483]}" please remove the curly bracket } and replace with the following round bracket to read: -- [499+483]) --

In Column 16, line 44, after the number "[499+499]}." please remove the curly bracket } and replace with the following round bracket to read: -- [499+499)]. --

## REMARKS

The requested corrections address obvious errors and other questions of form, not substance, and do not raise any questions regarding new matter. In particular the change in the legend on Fig 10C from 200Hz to 20Hz is supported by the following language in the originally filed specification.

**[0080]** The combination of the resistor XR1 270 (e.g., 499 k $\Omega$ ) and the capacitor XC1 272 (e.g., 0.1  $\mu$ F) comprise a low pass filter with a corner frequency of  $1/(XR1 \bullet XC1)$  (e.g., **20 Hz**), which corresponds to a time constant of  $XR1 \bullet XC1$  (e.g., 50 ms). This filter is for rejection of large 50 Hz or 60 Hz noise. These "high" frequencies are effectively shorted to ground. It is particularly helpful when the towel dispenser proximity detector is powered from an AC-coupled supply. The ubiquitousness of the AC power frequency, however, makes this protection desirable, regardless. [emphasis added].

The Director is authorized to charge the fee of \$100.00 and any additional fee(s) or any underpayment of fee(s), or to credit any overpayments to Deposit Account **50-0337**. Please ensure that Attorney Docket No. 4747-124C1N1/10401349 is referred to when charging any payments or credits for this case.

Respectfully submitted,

Dated: October 24, 2006

By /John May #26200/  
John M. May  
Reg. No. 26,200

Phone: (213) 892-9315  
Fax: (213) 892-9494  
E-mail: jmay@fulbright.com

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 2

PATENT NO. : 7,102,366 B2  
APPLICATION NO.: 10/783,677  
ISSUE DATE : September 5, 2006  
INVENTOR(S) : Dennis Joseph Denen, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

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Capacitor 286 should be 0.01 micro Farad (mu not u)

MAILING ADDRESS OF SENDER (Please do not use customer number below):

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 10 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

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